

PSRP Approach to PRA



PAYLOAD SAFETY & MISSION SUCCESS

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PSRP current approach



- There have been two scenarios in which the PSRP has considered a PRA a viable tool
 - For use in considering trade-offs during the initial design
 - When in a waiver condition to explain rationale for acceptance
- The PSRP would consider the use of PRA in other applications where credible

PSRP use of PRA



- HHR single-seal QD PRA
 - Case study performed to assess the risk of single vs. dual-seal QDs
 - Results indicated the additional risk for use of single-seals QDs is minimal
 - Partially due to the common-cause failure modes of dual-seal QDs

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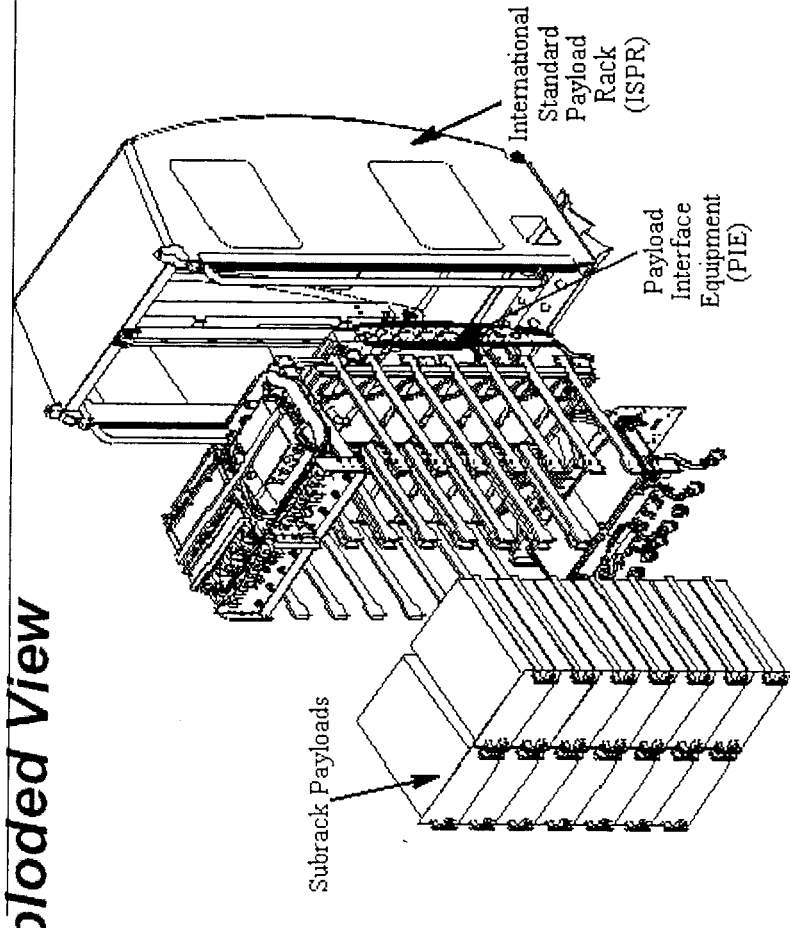


Back-Up Charts

HHR



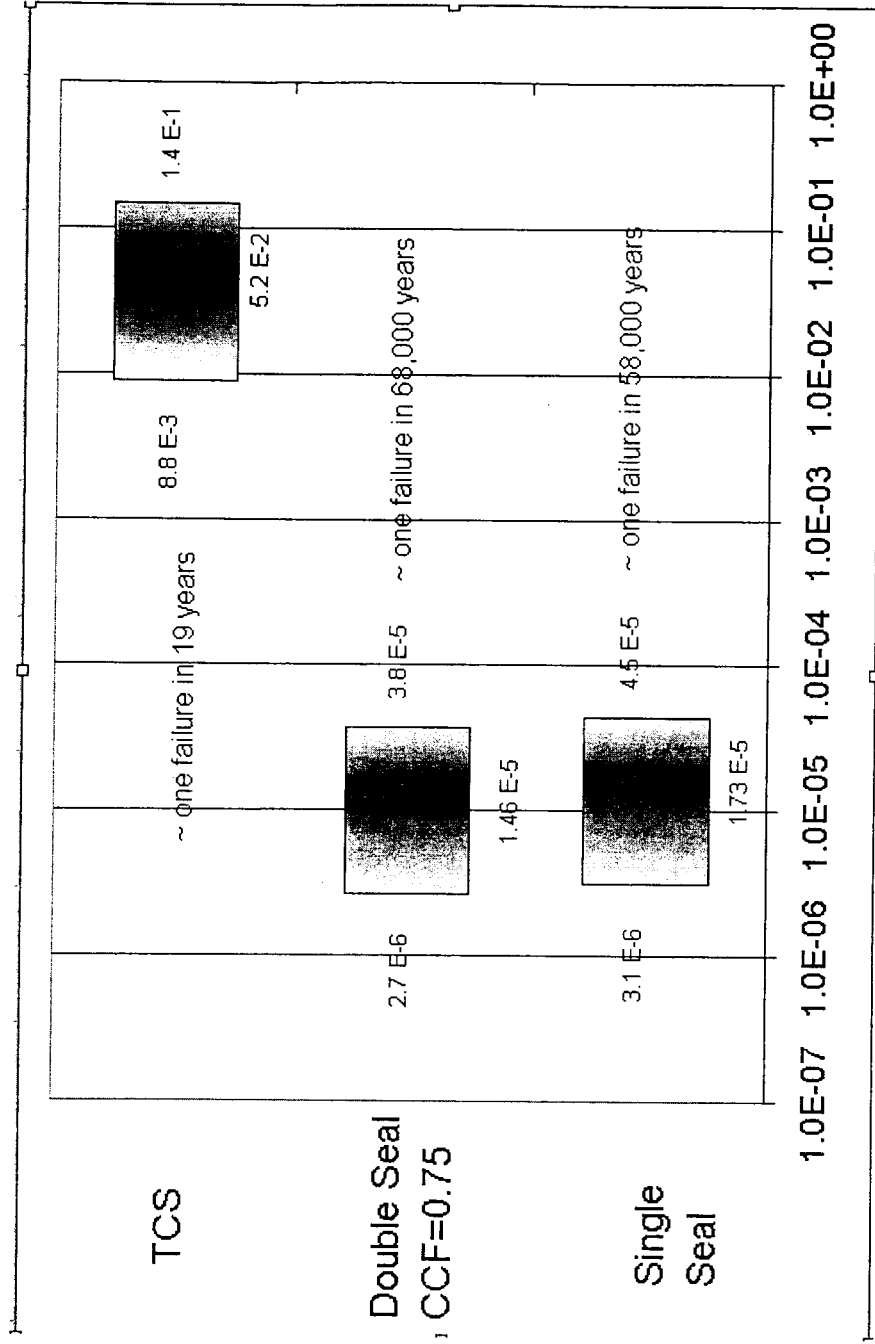
Exploded View



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Christine Stewart, Lead Payload Safety Engineer
PSRP approach to PRA

A HHR QD PRS Results



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